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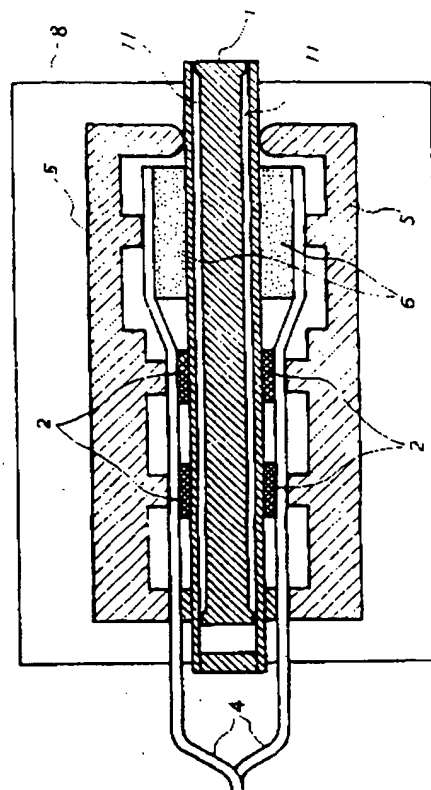
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TITLE : INK JET HEAD



ABSTRACT : PURPOSE: To enable to control the temperature of an ink in a passage with high accuracy, by providing a positive temperature coefficient thermistor in close contact with a head base provided with an ink passage.

CONSTITUTION: The positive temperature coefficient thermistor 6 is provided together with piezoelectric elements 2 in a close contact condition in the interior of the head base 1 provided with the ink passage 11. An FPC 4 for wiring for these component parts is pressed by a packing 5. When the thermistor 6 is supplied with electric power, it generates heat, so that the temperature thereof is rapidly raised, and the resistance thereof is proportionally increased. When the resistance reaches a value corresponding to a preset temperature, the supply of electric power is stopped. After a predetermined period of time, an electric current is passed to detect whether or not the resistance is equal to or higher than a set point, and when the resistance is lower than the set point, passing of the current is continued until the resistance reaches the set point. By repeating the above cycle, the positive temperature coefficient thermistor as a heater can be maintained at a fixed temperature while using it as a detector.

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